ROMANKOV, P.G., prof.; BAO CHZHI-TSYUAN' [Pao Chih-ch'üan], kand.tekhn.nauk
KUROCHKINA, M.I.

Some problems on the theory and practice of extraction from solid
materials. Khim. nauka i prom. 3 no.4:506-511 '58.

(MIRA 11:10)

(Extraction (Chemistry))

PAVLOV, K.F., ROMANKOV, P.G., prof.; NOSKOV, A.A.; KUROCHKINA, M.I., red.; KOTS, V.A., red.; ERLIKH, Ye.Ya., tekhn.red.

[Examples and problems in a course on the processes and equipment of chemical technology] Primery i zadachi po kursu protsessov i apparatov khimicheskoi tekhnologii. Izd.4, dop. i perer. Pod obshchei red. P.G.Romankova. Leningrad, Gos. nauchno-tekhn.izd-vo khim.lit-ry, 1959. 573 p.   (MIRA 13:2)
(Chemistry, Technical)

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SOV/80-32-10-1/51

AUTHORS: Simonova, L. K., Kurochkina, M. I.

TITLE: The VIII Mendeleyev Conference on General and Applied Chemistry

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10, pp 2129-2138 (USSR)

ABSTRACT: This conference was held March 16 to 23, 1959, in Moscow. The official delegates numbered 2,230, but some sessions were attended by as many as 11,000 people. More than 200 foreign chemists were present. Members of allied scientific disciplines also attended. Eleven papers were read at the plenary sessions and more than 1,500 at meetings of the 17 sections into which the conference was divided. The article lists the following Soviet personalities as presenting papers: Nesmeyanov, A. N., "D. I. Mendeleyev's Periodic System and Organic Chemistry"; Spitsin, V. I., present status of D. I. Mendeleyev's periodic law; Fedorov, V. S., scientific and technical progress in the chemical industry; Kargin, V. A., basic problems in

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polymer chemistry; Semenov, N. N., "Basic Problems in
Chemical Kinetics"; Vinogradov, A. P., basic problems
in radiochemistry; Sokolov , A. V., chemurgy; Syrdin,
Ya. K., present state of the theory of valence; Aleksand-
rov , A. P., chemical aspects of the utilization of atomic
energy; Nikolayev, V. B., basic problems of construction
chemical apparatus and equipment; Kazarnovskiy, I. A.
(Moscow), mechanism of reactions of superoxide formation and
their oxidizing effect; Makarov, S. Z. (w), perhy-
drate forms of peroxides of group I and II metal Vol'-
nov, I. I. (Moscow), Ca, Sr, and Ba peroxide compou...
Rode, T. V., Grishenkova, G. K., and Zachatskaya, A. V.
(Moscow), reaction of sodium peroxide and superoxide with
sodium carbonate and hydroxide; Lepeshkov, I. N. (Moscow),
new physicochemical analyses of natural salts and aqueous-
salt equilibria by the Kurnakov, N. S., school; Vol'fkovich,
S. I., Postnikov, N. N., Ionass, L. A., Illarionov, V. V.,
and Remen, R. Ye. (Moscow), new method of thorough defluor-
ination of unenriched ores; Chernyayev, I. I., Nazarova,
L. A., and Orlova, V. S. (Moscow), sulfates, nitrates, and
carbonates of platinum iodopentamine; Grinberg, A. A. (Len-
Card 2/9   ingrad), kinetics of complex formation and stability of

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complexes; Zvyagintsev, O. Ye., Kurbanov, A., Starosti ,
S. M. (Moscow), nitroso compounds of mercury; Ginzburg,
S. I., Pshenitsyn, N. K., Sal'skaya, L. G. (Moscow),
colored compounds of iridium; Shenderetskaya, Ye. V.,
Chernyayev, I. I. (Moscow), formates of monovalent rhodium;
Deychman, E. P. (Moscow), indium oxalate and its compounds
with oxalates of alkali metals; Lyutaya, M. D., Tananayev,
I. V. (Moscow), hexanitronickelates of rare earths; Sheka,
Z. A., Kriss, Ye. Ye., extraction of La, Nd, Y, and Yb ni-
trates from nitric acid solutions with solutions of di-
and tributyl phosphate in CCl_4; Arbuzov, A. Ye., presided
at one of the meetings of the agricultural chemistry section;
Arbuzov, B. A., reported on the work of the Kazan' Branch
of the AN SSSR on agricultural pesticides; Vol'fkovich, S. I.
(Moscow), research on concentrated complex fertilizers at
the Moscow State University; Chaylakhyan, M. Kh. (Moscow),
Gibberella as growth promoters; Kedrov-Zakhman, O. K.
(Moscow), effect of molybdenum on crop plants; Mel'nikov,
N. N. (Moscow), synthesis of organophosphorus insecticides;
Turchin, F. V. (Moscow), biological binding of atmospheric

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nitrogen; Lileyev, I. S. (Leningrad), silicates of alkali
metals; Ginstling, A. M., Volkov, A. D. (Leningrad), thermo-
chemical decomposition of calcium sulfate in crystalline
mixtures; Kukolev, G. V., Mikhaylova, K. A. (Khar'kov),
effect of surface-active additives on refractories; Budni-
kov, P. P., Savel'yev, V. G. (Moscow), barium monoalumin-
ate as a binder for refractory cements; Voronin, N. I.,
Krasotkina, N. I., Smirnova, V. A. (Leningrad), carborun-
dum; Matsynin, Ye. V., Okorokov, S. D. (Leningrad), port-
land cement clinker; Rashkovich, L. N., Butt, Yu.   (Kras-
kovo), mechanism of binder formation during autoclave   nt-
ment of lime-sand products; Tikhonov, V. A., Shpynova, L. G.
(L'vov), phase composition of portland cement; Vargin, V. V.,
Karapetyan, G. O. (Leningrad), absorption spectra, lumine-
scence, and photochemical properties of cerium glasses;
Avgustinik, A. I. (Leningrad), formation of finely dispersed
crystalline phase from the vitreous one; Nikolayeva-Fedoro-
vich, N. V., Petriy, O. A., Frumkin, A. N.   (Moscow),
polarographic behavior of platinum-halide complexes; Loshkarev
M. A., Chernobayev, I. P., Tomilov, B. I. (Dnepropetrovsk),
intermediates in electrochemical processes; Kartashova, K. M.,

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Sukhotin, A. M. (Leningrad), dynamic method of determining
electrode capacity; Semchenko, D. P., Il'in, K. G. (Novo-
cherkassk), electrochemical formation of higher oxygen com-
pounds of chlorine; Gritsan, D. N., Shun, D. S. (Khar'kov),
effect of detergents on the electrodeposition of metals;
Kudryavtsev, N. T., Smolenskaya, G. N.,
Karatayev, V. M., Golovchanskaya, R. G. (Moscow), titanium
plating; Lantratov, M. F., Alabyshev, A. F. (Leningrad),
new, easily melting electrolite for obtaining metallic
sodium; Planovskiy, A. N. (Moscow), was chairman of the
section of apparatus and processes, and gave a paper on
the present state of this subject; Gukhman, A. A. (Moscow),
theory of similitude; Romankov, P. G. (Leningrad), examples
of the use of the theory of similitude in chemical technol-
ogy; Todes, O. M. (Leningrad), hydrodynamics of fluidized
bed; Mukhlenov, I. P. (Leningrad), analysis of equations
of fluidized bed hydrodynamics; Gzovskiy, S. Ya. (Moscow),
study of the process of mixing; Pavlushenko, I. S. (Lenin-
grad), performance of mixers; Semenov, P. A. (Moscow),
mechanism of mass exchange of gas and liquid at their inter-
face; Lastovtsev, A. M. (Moscow), distribution by drop
size in an atomized liquid; Varlamov, M. L. (Odessa), puri-
fication of gases by sound; Zhuzhikov, V. A., theoretical
analytical methods suitable for studying filtration

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and Applied Chemistry

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processes; Gol'din , Ye. M. (Leningrad), movement of
material in centrifuges; Kaminskiy, S. (Moscow), new
types of centrifuges; Aynshteyn, V. G., Kruglikov, V. Ya.,
Gel'perin, N. I., Rapoport, I. B. (Moscow), heat exchange
between fluidized bed and a single pipe at different angles
to the flow; Nikolayev, P. I., Planovskiy, A. N. (Moscow),
experimental determinations of coefficients of local heat
emission by a pipe in a fluidized bed; Yelukhin, N. K.,
Ivanov, M. Ye., Vishnev, I. P., heat exchange during boil-
ing and condensation of O_2, N_2, and Ar; Bassel', A. B.,
Sakhiyev, A. S., heat exchange design; Mazyukevich, I. V.
(Leningrad), heat exchange in condensation of NH_3; Berman,
L. D. (Moscow), mass exchange mechanism; Lykov, A. V.,
application of Onzager's theory to the investigation of
heat and mass exchange processes; Kafarov, V. V. (Moscow),
mathematics of mass transfer; Poplavskiy, Yu. V. (Moscow),
tray apparatus; Rozen, A. M. (Moscow), large-diameter slot-
ted trays; Aksel'rod, L. S. (Moscow), Noskov, A. A. (Len-
ingrad), sieve rectification plates; Malyusov, V. A.,
Umnik, N. N., Zhavoronkov, N. M. (Moscow), multistage mole-
cular distillation; Dobroserdov, L. L. (Leningrad), separation
of azeotropic mixtures; Usmanov, A. G. (Kazan'), kinetics

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and Applied Chemistry

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of molecular transfer in gases; Traynina, S. S., Aerov,
M. E., Nikitina, N. ?. (Moscow), electrohydrodynamic
analogy in the study of chemical apparatus; Gel'perin, N. I.
(Moscow), extraction from solutions in counterflow injection
columns; Karpacheva, S. M., Rozen, A. M., operation of
pulsing columns; Kagan, S. Z., Aerov, M. E., extractors
with mechanical mixing of phases; Lur'ye, M. Yu. (Moscow),
drying in the chemical industry; Nesmeyanov, A. P., and
S.·· ·hays (Moscow), gave a series of papers on the chemis-
try of ferrocene; Karpeyskaya, Ye. A., Tovstopyatova, A. A.,
Bardshdin, A. A. (Moscow), rhenium as a catalyst of organic
reactions; Mamedal··· Yu. G. (Baku), new technological
process of chlorinating hydrocarbons in fluidized bed of
catalyst; Tsukervanik, I. P. (Tashkent), metal powders as
catalysts; Kargin, V. A., Kabanov, V. A., Marchenko, I. Yu.
(Moscow), obtaining isotactic polystyrene by polymerizing
styrene over Vigler's catalyst; Ushakov, S. N. (Leningrad),
new cross-linking agents for polymerization: Vansheydt,
A. A., Kuznetsova, N. N. (Leningrad), polycondensation of
phenoxyacetic acid with formaldehyde in the synthesis of
ion exchange resins; Zubov, V. P. (Moscow), polymerization

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of styrene in the presence of certain halogens; Losev,
I. P., Datskevich, L. A. (Moscow), synthesis of polyure-
thanes; Korshak, V. V., Sosin, S. L., Chistyakova, M. V.
(Moscow), linear polymers from reactions of free radicals
with unsaturated compounds; Andrianov, K. A. (Moscow),
polyorganoaluminum siloxanes; Tarasova, Z. N., Kaplunov,
M. Ya., Klauzen, P. A., Dogadkin, B. A., Karpov, V. L.
(Moscow), kinetics of radiation vulcanization; Rogovin,
Z. A., Derevitskaya, V. A. (Moscow), synthesis of new
cellulose derivatives; Glukhov, N. A. (Leningrad), organo-
metallic chelates; Sukhanov, V. P. (Moscow), petroleum as
raw material for fuels and chemicals; Kravets, N. M. (Moscow)
utilization of solid fuel; Lavrov, N. V. (Moscow), obtain-
ing and using combustible gases; Kosheleva, L. M., Mekhtiyev,
S. D., Pishnamezzade, B. F., Eybatova, Sh. E., Gashimova,
F. A., investigated the derivation of cyclohexane and its
closest homologs from Baku petroleum gasolene at the Petro-
leum Institute of the AzSSR Academy of Sciences; Fomina, A. S
Pobul', L. Ya. Degtereva, , Z. A. (Tallin), chemical nature
of Baltic shale kerogen; Kruglikov, A. A. (Nizhniy Tagil),
isolation and utilization of dihydric phenols from the semi-
Card 8/9   locking and hydrogenation of Cheremkhov coal; Lebedev, V. V.

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and Applied Chemistry

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(Khimki), new methods of producing hydrogen; Kruglikova,
V. Ya., Rappoport, I. B., Volynskiy, A. V., Muzovskiy, V. V.
(Moscow), high-yield synthesis of hydrocarbons from CO and
H_2 over iron catalyst in a boiling and in a stationary layer;
Petrov, A. D., Kaplan, Ye. P., Nefedov, O. M., Chel'tsova,
M. A. (Moscow), C_{18}-C_{40} polycyclic hydrocarbons; Sergiyenko,
S. R., Lebedev, Ye. V., Mikhnovskaya, A. A. (Moscow), struc-
ture of high-molecular petroleum hydrocarbons; Isagulyants,
V. I., Tishkova, V. N. (Moscow), synthesis of alkyl- and
arylphenol additives for fuels and lubricating oils;
Shuykin, N. I., Bekauri, N. G., Maslyanskiy, G. N. (Moscow),
catalytic isomerization of paraffins; Khmel'nitskiy, V. V.,
Zimina, K. I., Polyakova, A. A., Nikitina, V. M. (Moscow),
radiolysis of hydrocarbons; Geyman, M. A., Larin, A. D.
(Moscow), synthesis of anionic surface-active substances
from petroleum and related distillates. The conference
adopted a general resolution exhorting Soviet chemists
to greater creative efforts.

Card 9/9

KUROCHKINA, M.I.; ROMANKOV, P.G.

Kinetics of desorption from a porous adsorbent under conditions
of internal diffusion. Zhur. prikl. khim. 33 no.11:2497-2506
N '60.   (MIRA 14:4)

1. Kafedra protsessov i apparatov Leningradskogo tekhnolo-
gicheskogo instituta imeni Lensoveta.
                    (Desorption)

KUROCHKINA, M.I.; ROMANKOV, P.G.

Kinetics of desorption from a porous adsorbent in a fluidized bed. Zhur. prikl. khim. 33 no.12:2657-2664 D '60.   (MIRA 14:1)

1. Kafedra protessov a apparatov Leningradskogo tekhnologicheskogo instituta imeni Lensoveta.
(Desorption)

PAVLOV, K.F.; ROMANKOV, P.G., prof.; NOSKOV, A.A.; KUROCHKINA, M.I., red.;
KOTS, V.A., red.; ERLIKH, Ye.Ya., tekhn. red.

[Examples and problems for a course on the processes and equip-
ment of chemical technology] Primery i zadachi po kursu protses-
sov i apparatov khimicheskoi tekhnologii. Izd.5., ispr. Pod ob-
shchei red. P.G.Romankova. Leningrad, Gos. nauchno-tekhn. izd-vo
lit-ry, 1961.   573 p.   (MIRA 14:8)
               (Chemistry, Technical)

ROMANKOV,P.G.,prof., red.; KUROCHKINA, M.I., ved. red.; SAFRONOVA,
        I.M., tekhn. red.

        [Transactions of the All-Union Scientific and Technical
        Conference on Problems of the Theory and Practice of Liquid
        Extraction Processes] Trudy Vsesoiuznogo nauchno-tekhniche-
        skogo soveshchaniia po voprosam teorii i praktiki protsessov
        zhidkostnoi ekstraktsii, Leningrad, 1961. Leningrad, Gos-
        toptekhizdat, 1963. 383 p.   (MIRA 16:6)

        1. Vsesoyuznoye nauchno-tekhnicheskoye soveshchaniye po vop-
        rosam teorii i praktiki protsessov zhidkostnoy ekstraktsii,
        Leningrad, 1961.
          (Extraction (Chemistry))--Congresses) (Mass transfer)

ZYULKOVSKIY, Zdislav [Ziolkowski, Zdislaw]; PLISSA, A.V., inzh.;
[translator]; ROMANKOV, P.G., prof., red.; KUROCHKINA,
M.I., red.; ERLIKH, Ye.Ya., tekhn. red.

[Liquid extraction in the chemical industry] Zhidkostnaia
ekstraktsiia v khimicheskoi promyshlennosti. Leningrad,
Goskhimizdat, 1963. 478 p. Translated from the Polish.
               (Extraction (Chemistry))   (MIRA 16:9)

ROMANKOV, Petr Grigor'yovich; RASHKOVSKAYA, Nataliya Borisovna;
    KUROCHKINA, M.I., red.

[Fluidized bed drying; theory, design and calculations]
Sushka v kipiashchem sloe; teoriia, konstruktsii, raschet.
Leningrad, Izd-vo "Khimiia," 1964.   287 p.   (MIRA 17:8)

PAVLOV, K.F.; ROMANKOV, P.G.; NO:KOV, A.A.; KO:OCHKINA, M.I.,
    red.; KOTS, V.A., red.

[Examples and problems for the course on the processes and
apparatus of chemical technology] Primery i zadachi po kursu
protsessov i apparatov khimicheskoi tekhnologii. Izd.6.,
perer. i dop. Moskva, Khimiia, 1964. 633 p.   (MIRA 17:10)

1. Chlen-korrespondent AN SSSR (for Romankov).

KOZLOV, T.I., prepod.; KULINENKOVA, Ye.Ya., prepod.; KUROCHKINA M.I.,
prepod.; LEPILIN, V.N.; MEDVEDEV, A.A.; NOSKOV, A.A.
OVECHKIN, I.Ye.; PAVLUSHENKO, I.S.; PLYUSHKIN, S.A.;
RASHKOVSKAYA, N.B.; ROMANKOV, P.G.; FROLOV, V.F.; YABLONSKIY,
P.A.;

[Manual on practical work in the laboratory on the processes
and apparatus of chemical technology] Rukovodstvo k prakti-
cheskim zaniatiiam v laboratorii po protsessam i apparatam
khimicheskoi tekhnologii. Izd.2., ispr. i dop. Moskva,
Khimiia, 1964. 243 p.   (MIRA 18:2)

KUROCHKINA, M.I.

Second All-Union Conference on the Study of Liquid Extraction
and Chemisorption Processes. Zhur. prikl. khim. 38 no. 10:
2391-2392 O '65.   (MIRA 18:12)

KUROCHKINA, N. A.

KUROCHKINA, N. A. -- "Antigenic and Anaphylactogenic Properties of the Proteins of Natural and Altered Enzymatic Hydrolysis of Antidiphtheria Serum." Sub 17 Apr 52, Acad Med Sci USSR. (Dissertation for the Degree of Candidate in Medical Sciences.)

SO: Vechernaya Moskva   January-December 1952

ZHDANOV, A.K.; KUROCHKINA, N.A.

Quantitative determination of cerium by cathodic and anodic
methods of amperometric titration by means of an apparatus
having a rotating platinum microelectrode. Uzb.khim.zhur
no.3:15-24 '61.   MIRA 14:11)

1. Tashkentskiy gosudarstvennyy universitet imeni V.I.Lenina.
              (Cerium—Analysis)
              (Conductometric analysis)

IAVLOV, V.N., koksahKINA, N..., FROLOV L.L.

Polarographic determination of peroxides. Zav. lab. 30
no.5:539-540 '64.   (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov
i organicheskikh produktov.

BUZLANOVA, M.M.; KUROCHKINA, N.A.

Polarographic determination of aluminium in waste waters.
Zav. lab. 31 no.8:947 '65. (MIRA 18:9)

1. Novokuybyshevskiy filial nauchno-issledovatel'skogo instituta
sinteticheskikh spirtov i organicheskikh produktov.

LAPAN, A.P.; KUROCHKINA, N.I.; VERESHCHAGINA, A.A.

Study of phenols from waste waters of semicoking by chromatographic absorption analysis. Izv. Fiz.-khim. nauch.-issl. inst. Irk. un. 4 no.2:255-262 '59.   (MIRA 16:8)

(Phenols)   (Industrial wastes—Analysis)
(Chromatographic analysis)

KUR CHKINA, P.

Factory Sanitation

Comprehensive plan for improving working conditions. V per. profaktiva 13, No. 13, 1952.

KUROCHKINA, R. F.

"The Vegetation of Cherkess Autonomous Oblast and Its Significance as Fodder."   Cand Biol Sci, Tadzhik U, Stalinabad, 1953. (RZhBiol, No 8, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

ACCESSION NR: AP4020039   S/0032/64/0030/003/0281/0284

AUTHORS: Barancva, V. G.; Moskvin, A. F.; Kurochkina, T. F.

TITLE: Colorimetric determination of cyclopentadiene admixture in isoprene

SOURCE: Zavodskaya laboratoriya, v. 30, no. 3, 1964, 281-284

TOPIC TAGS: cyclopentadiene, isoprene, benzaldehyde, condensation, p
dinitrobenzene, phenylfulvene, optical density, colorimetric determination,
dianion

ABSTRACT: Since isoprene obtained from crude petroleum contains cyclopentadiene
(CPD), which inhibits polymerization in amounts over 0.0005%, it is important to
be able to determine it quantitatively. Two colorimetric methods were developed
by the authors, the first one based on the condensation of CPD with benzaldehyde
according to the reaction:

$$\left\langle\!\!\!\equiv\!\!\!\right\rangle CH_2 + OHC \left\langle\!\!\!\equiv\!\!\!\right\rangle \rightarrow \left\langle\!\!\!\equiv\!\!\!\right\rangle C = CH \left\langle\!\!\!\equiv\!\!\!\right\rangle + H_2O,$$
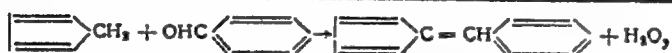
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ACCESSION NR: AP4020039

while the second method was based on the reduction of dinitrobenzene by CPD:
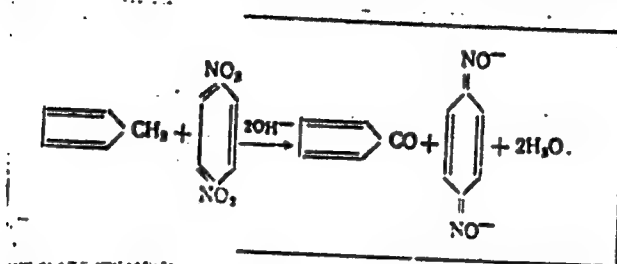
In the first method, 8 ml of a 3% ethanol solution of KOH, 8 ml of the analyzed isoprene, and 9 ml of a 5% ethanol solution of benzaldehyde were placed in a 25-ml volumetric flask, mixed, and allowed to stand for 3 minutes. The optical density of the developing color was measured in the 400-550 millimicron range by means of an FEK-N photoelectrocolorimeter, with a sensitivity of 6×10^{-4}% and an average error of not over 20%. In the second method, 0.3-5.0 gm of isoprene, 0.5 ml of a

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0.25% solution of p-dinitrobenzene in dimethylformamide, and 0.5 ml of a 10% aqueous solution of KOH were placed in a 25-ml volumetric flask and brought up to the mark by dimethylformamide. After standing 5 minutes, the optical density of the color of the dianion was measured at 620 millimicrons. The sensitivity of the method was 2×10^{-5}%, and the error did not exceed 20%. It took 20-25 minutes to perform the analysis. Orig. art. has: 1 chart, 3 tables, and 2 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka (Scientific Research Institute of Monomers for Synthetic Rubber)

SUBMITTED: 00   DATE ACQ: 27Mar64   ENCL: 00

SUB CODE: CH   NO REF SOV: 000   OTHER: 002

Card 3/3

ACC NR: AR6026535 SOURCE CODE: UR/0372/66/000/004/G045/G045

AUTHOR: Kurochkina, T. K.; Terpugov, A. F.

TITLE: Experimental verification of target-search algorithms with the aid of human subjects

SOURCE: Ref. zh. Kibernetika, Abs. 4G314

REF SOURCE: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, vyp. 47, 1965, 207-219

TOPIC TAGS: noise generator, analog computer, simulation test, target seeker / GShN-1 noise generator, MN-7 analog computer

ABSTRACT: The article presents the findings of an experimental study of target-search algorithms with the aid of human subjects, on using a GShN-1 noise generator, a converter and an MN-7 analog computer. Normal HF noise was converted to LF and transmitted to an integrator. When the "start" button is pushed on the integrator the latest instantaneous value of noise is memorized. The quantity μ (target simulator) is then added to or subtracted from this value of noise, in an adder. The subject is asked to identify with the aid of a voltmeter which one of a pair of channels contains the target; the channels are represented by the adder outputs. 8 illustrations, 6 tables, bibliography of 7 titles. Yu. M. [Translation of abstract]

SUB CODE: 09, 06, 12

Card 1/1 UDC: 62-506.2:16

RUDNEV, S.V., glavnyy energetik;—KUROCHKINA, V.A., inzhener.

Centralized separator on a ring spinning frame. Tekst. prom.16
no.10:31-32 O '56.   (MIRA 10:1)

1. Ramenskaya khlopchatobumazhnaya fabrika "Krasnoye znamya."
                    (Spinning machinery)

RUDNEV, S.V.; KUROCHKINA, V.A., inzh.

Pneumatic removal of waste in sorting and picking sections.
Tekst. prom. 18 no. 7:48-49 Jl '58.   (MIRA 11:7)

1. Glavnyy energetik pryadil'no-tkatskogo kombinata "Krasnoye
znamya."
                (Textile factories--Heating and ventilation)

Chemical Abstracts
Vol. 48   No. 5
Mar. 10, 1954
Soils and Fertilizers

The decomposition of crop residues from perennial grasses, and the influence of nitrogen fertilizers on the yield of spring wheat in relation to the time of plowing under the sod. I. V. Gulyakin, P. M. Smirnov, K. M. Khailov, V. I. Kurelenok, and V. F. Kurochkina. *Izvest. Timiryazev. Sel'skokhoz. Akad. No. 2(3), 11-58(1953).* — It is shown that plowing under a sod crop in the early fall supplies more available N than plowing it under in late fall. In the latter case the N becomes assocd. with complex unhydrolyzable forms. Data are presented showing the increase in yield of spring wheat.   I. S. Joffe

USSR / Plant Physiology. Mineral Nutrition.   I-2

Abs Jour   : Ref Zhur - Biol., No 22, 1958, No 99925

Author   : Borozovsldy, N. Ye.; and Kurochkina, V. F.
Inst   : Timiryazev Agricultural Academy
Title   : Study of the Effect of 2.4-D on the Entry and Distribution
              of P^{32} in Plants.

Orig Pub   : Dokl. AN SSSR, 113, No 1, 210-213, 1957

Abstract   : In the Timiryazov Agricultural Academy, sunflower plants in
              phase 5 of leaves were sprinkled with a solution of 2.4-D
              sodium salt. In another series of experiments the prepara-
              tion was introduced into the soil. After 3 days, $NaH_2P^{32}O_4$
              was introduced into the soil or placed on the upper surface
              of 3rd-tier leaves in the form of droplets. After 3 and 8
              days the content of common F and P^{32} was determined in the
              plants. 2.4-D delayed the entry of F through roots and

Card 1/2

Abs Jour   : Ref Zhur - Biol., No 22, 1958, No 99925

              leaves. This retarding of the admission of F was expres-
              sed more strongly than the suppression of the formation
              of the organic substance, which resulted in the decrease
              of F content per dry-mass unit, especially in the younger
              parts of the plant. The plants processed with 2.4-D
              through the introduction of the latter into soil, retained
              in their roots up to 24% of the P^{32} introduced into the
              soil; the plants subjected to sprinkling with 2.4-D
              retained only 9.1% of the F introduced into the soil. The
              derangement of the entry of F into plants owing to the
              action of 2.4-D is of a temporary nature. - B. A. Rudenko.

Card 2/2

USSR/Plant Physiology. Mineral Nutrition   I-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 29398

Author   : Berezovskii M.Ia., Kurochkina V.F.
Inst   : Not Given
Title   : The Influence of 2,4-Dichlorophenoxyacetic Acid [D]
           on the Transformation of Phosphorus Compounds in the
           Plant.

Orig Pub : Dokl. AN SSSR, 1957; 113, No 2, 458-461

Abstract : In a vegetation experiment the spraying of an over-ground
           mass of sunflower with a low concentration of 2,4-D
           lowered the P intake into the plant and decreased its
           content. The content of inorganic P somewhat increased,
           but P in organic compounds, especially in acid solvent
           fractions, sharply decreased. 2,4-D introduction in
           soil in the root area not only decreased the absorption
           of phosphates, but their attachment to the roots and
           their transformation into less mobile combinations were

Card   : 1/2

USSR/Plant Physiology. Mineral Nutrition   I-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 29398

observed. At a simultaneous increase of the relative
content of nucleoproteids the content of inorganic P
decreased and the weight of acid solvent fractions was
considerably lower. The negative effect of 2,4-D on
the intake and accumulation of P in plants was reversi-
ble. A conclusion was reached that 2,4-D acted more
on the content of intermediate products of phosphorus
metabolism.

Card   : 2/2

LYUBINA, A. S. (Deputy of the Supreme Soviet of the USSR, Chief Zootechnician
of the state farm "Pes'yanovskii") and KUROCHKINA, E. A., (Head of the Interraion
Veterinary Bacteriological Laboratory, Ishimsk raion, Tyumen' Oblast')

"Reserves in the increase of productivity of animals at the state farm
"Pes'yanovskii"
Veterinariya, vol. 39, no. 6, June 1962 pp. 26

LYUBINA, A.S., deputat Verkhovnogo Soveta SSSR; KUROCHKINA, Ye.A.

Possibilities of increasing the productivity of farm animals
on the "Ped'ianovskii" State Farm. Veterinariia 39 no.6:26-28
Je '62   (MIRA 18:1)

1. Glavnyy zootekhnik sovkhoza "Pes'yanovskiy" (for Lyubina).
2. Zaveduyushchaya mezhtayonnoy veterinarno-bakteriologicheskoy
laboratoriyey, Ishimskiy rayon, Tyumenskoy oblasti (for
Kurochkina).

KUROCHKINA, Ye.K., inzh.; LEKHTTSIND, A.M., inzh.

New machine tools used for mechanizing reinforcement work.
Stroi. i dor. mashinostr. 3 no.2:11-12 F '58.   (MIRA 11:2)
(Machine tools)
(Reinforced concrete construction)

KUROCHKINA, Ye.P.; SAMOYLOV, V.P.

Layerless chromizing in a diluted bath.   Izv.vys.ucheb.zav.;
tekh.tekst.prom.   no.6:93-94   '58.   (MIRA 12:4)

1. Kostromskoy tekstil'nyy institut.
              (Textile machinery)   (Chromium plating)

KUROCHKIN, Yu.V.; KUROCHKINA, Z.A.

Helminths of bats in the Astrakhan Preserve. Trudy Astr. zap.
no.6:127-134 '62.   (MIRA 16:7)

(Astrakhan Preserve—Worms, Intestinal and parasitic)
(Astrakhan Preserve—Parasites—Bats)

KUROCHKINA, Z.A.

Supplement to the bibliography on parasitology of the Volga Delta.
Trudy Astr. zap. no.9:227-237 '64.

(MIRA 18:10)

KUROCHKINA, Z.V.; SEMENOVA, A.I.; DOBROVOL'SKAYA, Ye.A.; USTINOV,Ye.Ye.

Food poisoning caused by a Salmonella typhimurium (Breslau) group.
Zhur. mikrobiol. epid. i immun. 29 no.11:71-73 N '58.   (MIRA 12:1)
        (SALMONELLA INFECTIONS, in inf. & child,
            typhimurium food pois. (Rus))

SHELYAPINA, T.S.; TROFIMOVA, A.I.; KUROCHKINA, Z.V.

First interprovince conference on scientific and practical work
in the control of diphyllobothriasis. Med.paraz.i paraz.bol. 26
no.6:752-754 N-D '59.   (MIRA 13:4)
          (WORMS, INTESTINAL AND PARASITIC)

VELIKOVSKAYA, Ye.M.; VELIKOVSKIY, D.S.; PEGANOV, A.A.; DOBRYAKOVA, L.I.;
    KUROCHKINA, Z.V.; LISOVSKIY, I.I.

Synthetic drying oils. Patent U.S.S.R. 77,050, Dec.31, 1949.
(CA 47 no.19:10244 '53)

KUROCHKINA, Z. V.

30266

Silikatnyye kraski dlya kamyennykh povyerkhnostyey. Soobshch.
Laboratorii otdyolochnykh rabot (Akad. arkhtyektury SSSR), vyp. 1,
1949, s. 7-9.

Lur'ye, .. I. Raschyet elyektrovzryvnykh syetyey pri ispol'zovanii
Gal'vanichyeskikh elyemyentov.--Sm. 30297

SO: LETOPIS' NO. 34

KUROCHKINA, Z. V.

30265

Antisyeptichyeskiye kraski dlya dyeryeva. Soobshch. Laboratorii ordyelochnykh Rabot (Akad. arkhityektury SSSR), vyp. 1, 1949, s. 33-35.

SO: LETOPIS' NO. 34

KUROCHKINA, Z., inzh.

    Resilient monolithic floors to be used in apartment houses and
public buildings. Gor.i sel'stroi. no.10:25-26 O '57. (MIRA 10:12)
                               (Floors)

KARASEV, K.I., kand.khimicheskikh nauk; KUROCHKINA, Z.V., inzh.

Treating silicate paints for water resistance with organosilicon
compounds. Strol.mat. 8 no.3:32-33 Mr '62.   (MIRA 15:8)
        (Paint)   (Silicon organic compounds)

KAPASEV, K.I., kand. khim. nauk; HIRCHEIN, T.V., In.L.

/   Determining the waterproofness and steamproofness of industrial
    lacquered and painted surfaces. Sbor. inform. soob. VNIIMSM no.15:
    42-43 '62.

    Memoranda for painters; finishing inner surfaces with silicate
    paint. Ibid.:66-69

                                                    (MIRA 18:3)

KAPRALOV, B.P., inzh.; KUROCHKO, R.S., inzh.

Electric arc hard facing of valves working in corrosive media.
Svar. proizv. no.3:38-40 Mr '63.   (MIRA 16:3)
            (Hard facing) (Corrosion and anticorrosives)

KUROCZKIN,N.

35

POLAND

KULESZA, Aleksandra; Department of Epidemiology (Zaklad
Epidemiologii), PZH /Panstwovy Zaklad Higieny -- State Ins-
titute of Hygiene/, Director: Prof Dr J. KOSTRZEWSKI, Head
of the Institute: Prof Dr F. PRZESMYCKI; with the collabo-
ration of J. GOLBA, T. JOPKIEWICZ, M. KACPRZAK, W. KOCIELSKA,
M. KOPEC, K. LIPINSKA, R. LUTINSKI, J. MAKAREWICZ, H. MALYSZ-
KO, K. NEYMAN, A. OLES, S. PESKA, R. POPIELEWICZ, T. RODKIE-
WICZ, J. ROZWADOWNA, W. SOCZEWICA, S. SZCZESNIAK, D. ZOLNIE-
RZOWA all of the Wojewodztwo Health and Epidemiological Sta-
tions (Wojewodzkie Stacjo Sanitarno-Epidemiologiczne); H.
BOBROWSKI, A. GECOW, J. GELBER, M. GRUSZCZYNSKA, H. JASTRZEB-
SKA, E. JUZWA, J. KUROCZKIN, Z. RESZKE, R. STANCZYK, J. SYG-
NATOWICZOWA, Z. SZCZERSKA, K. SZCZYGIELSKI, S. SZYNDLAR, K.
SWICOWA, J. WAJSZCZUK, R. WARZECHA all of the Departments
of Poliomyelitis Patients (Oddzialy dla Chorych na Polio-
myelitis) of the Wojewodztwo Health and Epidemiological
Stations; J. ADAMSKI (Poznan), H. DOBROWOLSKA (Warsaw), J.
BOCHENSKA (Lodz), M. KOENIG (Krakow); H. DOBROWOLSKA of
the Department of Virology (Zaklad Wirusologii) of PZH.
1/2

POLAND

Director: Prof Dr F. PRZESMYCKI, technical aid: A. RACINSKA

''Epidemic Situation of Poliomyelitis in Poland in 1961''

Warsaw, Przeglad Epidemiologiczny, Vol XVI, No 4, 1962,
         pp369-375.

Abstract:/Author,' English summary modified/ The profound
influence on the epidemiology, etiology and clinical picture
of poliomyelitis of the introduction of mass immunization
with attenuated polio vaccines in 1959 is discussed. Obser-
vations on the influence and effect of immunizations with
such vaccines on the epidemic situation of poliomyelitis
in Poland are reported. 4 tables, 2 diagrams; 5 Polish
references.

2/2

30

POLAND

KULESZA, Aleksandra of the Department of Epidemiology (Zaklad Epidemiologiczny) of the PZH /Panstwowy Zaklad Higieny -- State Institute of Hygiene/, Director: Prof Dr F. PRZESMYCKI, Head of the Department: J. KOSTRZEWSKI; J. GOLBA, T. JOPKIEWICZ, M. KACPRZAK, W. KOCIELSKA, K. LIPINSKI, R. LUTYNSKI, J. NAKAREWICZ, S. PECKA, T. RODKIEWICZ, W. SOCZE-VICA, S. SZCZESNIAK, D. ZOLNIERKOWA all of the WSSE /Wojewodzkie Stacje Sanitarno-Epidemiologiczne -- Wojewodztwo Health and Epidemiology Stations/; H. BOBROWSKI, A. GECOW, J. GELBER, E. JUZWA, J. KUROSZKIN, J. SYGNATOWICZOWA, Z. SZCZERSKA, K. SZCZYGIELSKI, K. SWICOWA, R. WARDECKA of the Departments of Poliomyelitis Patients (Oddzialy dla Chorych na Poliomyelitis) of the WSSE; H. DOBROWOLSKA of the Department of Virology (Zaklad Wirusologii) of PZH, Director: Prof Dr F. PRZESMYCKI; J. ADAMSKI (Poznan), H. DOBROWOLSKA (Warsaw), J. BOCHENSKA (Lodz), M. KOMIN (Krakow), H. MAKOWER (Wroclaw), F.Z. TAYTSCH (Warsaw) of the PZH; technical aid of A. BAGINSKA of the PZH.

"Safety of Immunization with the Attenuated Polio Virus

1/2

POLAND

Strains Type 1 Chat and Type 3 W Fox"

Warsaw, Przeglad Epidemiologiczny, Vol XVI, No 4, 62, pp 377-388.

Abstract: /Author s' English summary modified/ An epidemical, clinical and virological analysis of poliomyolitis in Poland was made within 6 weeks after completion of oral immunization with polio virus type 1 Chat and type 3 W Fox. Investigations made in 1959 and 1960 show the complete safety of Koprowski's attenuated oral vaccine type 1 Chat. The strain 3 W Fox is indicated as a pathogenic one and its uncertain safety found by investigations in 1960 has been confirmed. 8 tables; 2 diagrams; 9 references, 2 Polish the rest Western.

[2/2

KURODA, T.

Remarks on some covering surfaces. In English. p. 232.

REVUE DE MATHEMATIQUES PURES ET APPLIQUEES. JOURNAL OF PURE AND APPLIED
MATHEMATICS. (Academia Republicii Populare Romine) Bucuresti. Rumania.
Vol. 2, 1957.

Monthly List of East European Accessions (EEAI) LC. Vol. 9, no. 1, January 1960.

Uncl.

SOV/136-59-7-9/20

AUTHORS: Gurkin, S.I., and Kurokhtin, A.N.

TITLE: Experience in the Intensification of the Process of Electrolysis of Aluminum at the Stalino Aluminum Works

PERIODICAL: Tsvetnyye metally, 1959, Nr 7, pp 46-52 (USSR)

ABSTRACT: The authors discuss improvements in aluminum-electrolysis practice in the new sections of the Stalino works. Table 1 compares operating parameters for 1953 and 1958, showing that productivity increased by 5.5 - 13%. The measures taken at the works are those adopted throughout the Soviet aluminum industry; the distinctive feature at Stalino is the reduction of the bath voltage (by 0.187 - 0.266 volts). The changes in electrical and thermal conditions achieved, mainly through eight constructional modifications, are shown in Table 2. Cathode- and anode-section loading at the works is probably the highest in the USSR and is one of the bottlenecks for further intensification. A graphical representation of operating factors for 1952-1958 is given. Some improvement resulted from

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Experience in the Intensification of the Process of Electrolysis
of Aluminum at the Stalino Aluminum Works   SOV/136-59-7-9/20

the use of longer anode pins, which reduced overheating
of the anode centres. Increase current density led to
reduced voltage drop in bath bottoms which the authors
explain in terms of higher metal-level and careful
bottom cleaning. Among factors contributing to the
reduction in heating voltage were mechanization of anode
lifting and reduction in inter-electrode distance. The
last factor, contrary to results of laboratory experiments
did not reduce but increased current efficiency. At
present this distance is as low as 3.6 - 4.0 cm (generally
3.9 - 4.2), but the authors consider that optimum electro-
lysis conditions correspond to 3.0 cm. The authors note
that, in spite of increased current density it has been
possible to reduce heat losses. Between 1953 and 1958
metal production per KWH has increased by over 7%, the
present power consumption on one series being lower than
anywhere in the USSR (and, perhaps, the world) and the
authors maintain that intensification of electrolysis
without increase of heat losses is the best practice.

Card 2/3

Experience in the Intensification of the Process of Electrolysis
of Aluminum at the Stalino Aluminum Works

SOV/136-59-7-9/20

From the equations of G.A. Abramov and A.A. Kostyukov,
conditions at Stalino are still not at the optimum level.
The authors briefly compare conditions at Stalino with
those at other works (DAZ and VAZ) and the results obtained
by various shift crews at Stalino. There is 1 figure and
3 tables.

ASSOCIATION: Stalinskiy alyuminiyevyy zavod (Stalino Aluminium
Works)

Card 3/3

OSTASHEVSKAYA, N.S.; OLENTSEVICH, N.A.; BASHKATOVA, A.S.; LANDA, M.B.;
     KUNSHCHIKOVA, A.A.; LISIN, D.M.; KUROV, V.V.; YEMEL'YANOV, N.A.;
     FAKTOROVICH, B.A.; KUROKHTIN, A.N.

     Industrial testing of Listvyanka anthracite for lining the
     bottom of aluminum electrolytic cells. TSvet.met. 38
     no.10:62-66 O '65.   (MIRA 18:12)

KUROKHTINA, T. P.

"The Relation between Carnosine and the Protein of Muscles," Biokhim., 14, No. 6, 1949. Chair Animal Biochemistry, Moscow Order of Lenin State Univ. im M. V. Lomonosov.

(FMP)

Phosphocreatine and Adenosinetriphosphate in Rat brain cortex after electro-convulsions. P. P. Monov and T. P. Kurakhtina (Inst. Biol. and Med. Biol. in Phar. 21, ... (1961) ... Moscow) ... ... of phosphocreatine ... and of ATP II ... ... after convulsions and before ... ... excitability of the cort ... ... at the same time, it ... ... the contents of I and ... ... by which true excitabi ... ... restored. Trenha ... ... other phosphate ... ... 20 min after removal of ... ... excitability of the cortical motor zone was ... ... current from Ag electrodes of ... ... by contraction of the hind paw muscles ... ... Having died excitability, a portion of ... ... from 1 cortical lobe by a surgical ... ... of the sample frozen in liquid air ... ... from moment of sampling to ... ... min after the external convulsions ... ... intervals between ... ... rather to detain more than 6-13 seizures in a row, the last attacks being short and weak. Convulsions having ... a portion of cortex from the 2nd lobe was removed ... frozen, and the excitability died every 6-7 min ... after termination of convulsions 1 more portion of ... was excised and frozen. Each of the 2 portions of ... were ground to a powder while frozen and ... ... HClO4OH was added (1:10). The following P ... were detd in the filtrate: (1) inorg P after ... ... 2) some inorg P + phosphocreatine P ... ... 1 min hydrolysis in 1N HCl at 100°. P was ... colorimetrically according to Fiske and Subbarow ... step photom ... Chist ... Rokova ...

(1)

KUROKHTINA, T.P. [translator]; PASYNSKIY, A.G., professor, redaktor;
GRISHCHENKO, Ye.D., redaktor; OBRASIMOVA, Ye.S., tekhnicheskiy
redaktor

[Amino acids and proteins; a collection of articles. Translated form
the English] Aminokisloty i belki; sbornik statei. Perevod s
angliiskogo T.P.Kurokhtinoi. Pod red. i s predisl. A.G.Pasynskogo.
Moskva, Izd-vo inostrannoi lit-ry, 1952. 394 p.   (MLRA 10:2)
          (Amino acids)   (Proteins)

OREKHOVICH, V.N.; KUROKHTINA, T.P.; BUYANOVA, N.D.

On the "inclusion" of tagged amino acids into blood plasma albumin. Biokhimii
18 no.6:706-708 N-D '53.   (MLRA 6:12)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR. Moscow.
               (Amino acids) (Blood--Plasma) (Tracers (Biology))

KUROKHTINA, T. P.

(2)

A study of the renewal rate of plasma proteins in the organism with the aid of methionine S³⁵. T. P. Kurokhtina (Inst. Biol. and Med. Chem., Acad. Med. Sci. U.S.S.R., Moscow). *Biokhimiya* 19, 16–18(1954).—The rate of methionine S inclusion into blood plasma reflects the renewal rate of protein mols., which varies with each fraction of the blood plasma protein. This is in disagreement with some of the results previously reported. B. S. Levine

Translation M-122, 21 Jan 55

KUROKHTINA, Z.F., meditsinskaya sestra.

Postoperative period in cases of intestinal obstruction. Med.sestra no.7:
9-12 Jl '53.   (MLRA 6:7)

1. Moskovskaya ordena Lenina gorodskaya klinicheskaya bol'nitsa imeni S.B.
Botkina.   (Intestines--Obstructions) (Operations, Surgical)

KUROKHTINA, Z.I.

Dying "Nitron" fibers for carpet goods. Tekst.prom. 19
no.10:72 0 '59.   (MIRA 13:1)

1. Zav.laboratoriyey Lyuberetskogo kovrovogo kombinata.
   (Dyes and dyeing--Nylon) (Rug and carpet industry)

Kurolap, N.S.

USSR/Inorganic Chemistry. Complex Compounds.   C

Abs Jour   : Ref Zhur – Khimiya, No. 8, 1957, 26467.

Author   : Tikhonov, A.S.; Kurolap, N.S.
Inst   : Voronezh University.
Title   : Study of Reactions of Complex Formation of
               Two-Valent Tin Ions with Citric Acid Ions.

Orig Pub   : Tr. Voronezhsk. un-ta, 1956, 42, No. 2,
               61 – 62.

Abstract   : Citric acids ions (I) produce well soluble
               complexes with Sn^{2+}. According to the data
               of the research by the potentiometric method,
               the complex $SnC_6H_5O_7$ is produced when pH is
               less than 7, and $Sn(OH)C_6H_5O_7^{2-}$ of the insta-
               bility constant of about 10^{-20} is pro-
               duced when pH is equal, or greater than, 7.
               The 1st complex is nearly equally stable in

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the opinion of the authors. The complexes de-
compose in the alkaline region and $Sn(OH)_2$
falls out at pH equal to 9 – 11, the solu-
bility product of $Sn(OH)_2$ being 2.27×10^{-26}
according to the data of the potentiometric
titration. According to the polarographic
study, the introduction of citrate ions into
strongly alkaline solutions does not shift
the potential of the half-wave of stannite,
which indicates the absence of complex for-
mation of Sn^{2+} and I in this region of pH.

Card 2/2

ZHUKOV, A.V., doktcr tekhn.nauk; ABRAMOVICH, M.D., kand.tekhn.nauk;
SAKHAROVA, N.A., inzh.; KUROLAPNIK, S.D., inzh.; DROBOT, N.K.,
inzh.

Carpet-pattern tiles made by dry-pressing for the finishing of
wall panels. Stek.i ker. 22 no.10:28-30 O '65.

(MIRA 18:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut stroitel'-
nykh materialov i izdeliy (NIISMI), Kiyev.

BELYKH, L.G.; KOROLENI, O.A.; SKRIPKO, A.L.

Measurement of the moisture of a coal charge by the method of nuclear magnetic resonance. Zav.lab. 29 no.2:168-172 '63. (MIRA 16:5)

1. Moskovskiy energeticheskiy institut.
(Coal) (Moisture) (Nuclear magnetic resonance and relaxation)

KUROLIN, S.A.; VULIKH, A.I.

Vacuum synthesis of alkali metal metatitanates. Zhur. prikl.
khim. 37 no.12:2748 D '64.   (MIRA 18:3)

KURONEN, G.F.; MIKHAYLOV, A.A.

Economic efficiency of the introduction of billets in enterprises of the West Ural Economic Council. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 no.3:8-9 Mr '65.
(MIRA 18:5)

SOV/137-59-1-1997

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 263 (USSR)

AUTHOR: Kuronova, N. V.

TITLE: Electrolytic Polishing of "583"-purity Gold
            (Elektroliticheskaya polirovka zolota 583 proby)

PERIODICAL: Sb. tr. Vses. n.-i. in-t Goznaka, 1957, Nr 1, pp 341-357

ABSTRACT: It was established that "583"-purity gold alloy can be electrolytically
            polished in solutions containing $K_4Fe(CN)_6$ and KCN. The optimum
            composition of the electrolyte (in g/liter) is: KCN 10, $K_4Fe(CN)_6$ 20,
            $NaHPO_4$ 1, KOH 0.2, temperature 50 - 60°C, bath voltage 2.8 - 3 v,
            distance between the electrodes 10 cm, duration of the process 5 - 10
            min, anodic potential 0.75 v, with mechanical stirring. The funda-
            mental laws governing the anodic treatment of this alloy are deter-
            mined. The uniform removal of the metal and, in this connection,
            the feasibility of electrolytic polishing of duplex-metal articles are
            established. It is established that the Au dissolved in the electro-
            lytic polishing process is completely deposited on the cathode.

                                                                S. B.

Card 1/1

KURONYA, Istvan

> Household as seen by a chemist. Elet tud 16 no.21:Suppl:
> Tarkatudomany 2 no.11:84-85 21 My '61.

KURONYA, Istvan

    Once again on baking powder. Elet tud 16 no.37:Supp..:Tarkatudomany
2 no.19:148-149 10 S '61.

KUROPATENKO, F.K., dotsent, kand. tekhn. nauk; SUKHOV, V.I., prof., doktor
    tekhn. nauk, red.; PAVLOVSKAYA, Ye.M., tekhn. red.

[Soil mapping of zones covered by machine-tractor stations and
administrative regions] Zemleustroitel'noe kartografirovanie zon
deiatel'nosti MTS i administrativnykh raionov. Pod red. V.I.Su-
khova. Gorki, M-vo sel'.khoz. SSSR, 1957. 161 p.   (MIRA 14:8)
    (Agriculture—Maps) (Cartography)

SOV-3-58-8-16/26

AUTHORS: Yenyukov, A.V., Candidate of Agricultural Sciences, and
               F.K. Kuropatenko, Candidate of Technical Sciences

TITLE: Projects Prepared Under Industrial Conditions   (Proyekty
               sozdayutsya v proizvodstvennykh usloviyakh)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 8, pp 66 - 70   (USSR)

ABSTRACT: Students of the engineering faculties of agricultural
               vuzes have to prepare 5 to 12 course designs and works.
               Often, however, the students are misdirected methodical-
               ly in executing these works. At various agricultural vuzes,
               course projects of one type are worked out in similar fa-
               culties by different methods. This is apparently due to
               the different ways in which the preparation of projects
               is organized and the coordination existing between the re-
               lated chairs or to a lack of such coordination. The au-
               thor considers it methodically wrong if the student pre-
               pares his course project on related subjects of various
               enterprises. In recent years, with regard to these and
               other deficiencies, some vuzes have applied the complex
               method of preparing course projects, i.e. a project is
               worked out by the students which has been prepared at
Card 1/2   only one enterprise. As an example, the author mentions

Projects Prepared Under Industrial Conditions   SOV-3-58-8-16/26

ASSOCIATION:

the Moscow Institute of Melioration Engineers and the Be-
lorussian Agricultural Academy. Though the methods ap-
plied require further improvement, they can be recommended
to all engineering faculties of agricultural vuzes.
Moskovskiy institut inzhenerov zemleustroystva (Moscow In-
stitute of Melioration Engineers); Belorusskaya sel'skokh-
ozyaystvennaya akademiya (Belorussian Agricultural Academy)

Card 2/2

YEGOROVA, Tat'yana Mikhaylovna; KANIVETS, M.A., retsenzent; RYZHYKH,
I.I., starshego prepod., retsenzent; STEPANOV, S.P., assistent,
retsenzent; GENDEL'MAN, M.A., prof., retsenzent; GENDEL'MAN,
A.M., kand. ekon. nauk, retsenzent; KUROPATENKO, F.K., prof.,
retsenzent; KONTOROVICH, I.A., starshiy prep., retsenzent;
YEROFEYENKO, A.G., assisten, retsenzent; DAVYDOV, G.P., red.;
SHAMAROVA, T.A., red. izd-va; SUNGUROV, V.S., tekhn. red.

[Topographical drawing]Topograficheskoe cherchenie. Moskva,
Geodezizdat, 1961. 158 p.   (MIRA 15:8)

1. Zaveduyushchiy kafedroy geodezii Omskogo sel'skokhozyay-
stvennogo instituta (for Kanivets). 2. Zaveduyushchky kafedroy
zemleustroystva TSelinogradskogo sel'skokhozyaystvennogo insti-
tuta (for Gendel'man, M.A.). 3. Zaveduyushchiy kafedroy zemle-
proyektirovaniya i planirovki sel'skikh zaselennykh mest Be-
lorusskoy sel'skokhozyaystvennoy akademii (for Kuropatenko).
              (Topographical drawing)

MASLOV, Aleksey Vasil'yevich; GOLOREV, Georgiy Il'ich;
KUROPATENKO, F.K., prof., retsenzent; TIGTYUNNIKOV,
Ya.M., retsenzent

[Geodesy] Geodezila. Moskva, Nedra. Pt.3. Izd.2.,
perer. i ispr. 1964. 185 p.   (MIRA 18:1)

ALEKSEYCHIK, N.I.; MARTINOVICH, G.I.; MALYANOVA, G.I.; KUROPATENKO, G.F.

Effect of the Minsk gassed mineral water from the borehole No.2
on the secretory and evacuating function of the stomach and on
diuresis, in dogs. Vop. fiziol. chel. i zhiv. no.1:163-167 '60.
(MIRA 14:10)

1. Belorusskiy nauchno-issledovatel'skiy institut nevrologii,
neyrokhirurgii, fizioterapii i kafedra fiziologii cheloveka i
zhivotnykh Belorusskogo gosudarstvennogo universiteta imeni Lenina.
(MINSK—MINERAL WATERS)   (STOMACH)
(DIURETICS AND DIURESIS)

82516

S/020/60/133/04/06/031
B019/B060

AUTHOR: Kuropatenko, V. F.

TITLE: A Method of Calculating Shock Waves

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 4, pp.771-772

TEXT: The author offers a method of calculating discontinuous solutions
of gas-dynamic equations (1). By this method, the discontinuities are not
sorted out singly, and it therefore behaves like the so-called "open" cal-
culation, where singular points are not sorted out either. Equations (2)
are, however, used for calculating the Hugoniot conditions. In the integra-
tion of (1) the intervals of the state variables are divided into two
classes, and the approximate solution in the intervals of the first class
is called elementary rarefaction wave, and elementary shock wave in the
intervals of the second class. The calculation of the state variables in
the individual intervals is discussed and it is stated that a shock wave
at random can be replaced by a finite number of elementary shock waves
when applying the method given here. A number of calculations were made
by this method and a satisfactory agreement was found between exact and

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A Method of Calculating Shock Waves

82516

S/020/60/133/04/06/031
B019/B060

approximate calculations. The author thanks N. N. Yanenko for a number of valuable suggestions. There are 3 references: 1 Soviet and 2 US.

PRESENTED: December 16, 1959, by S. L. Sobolev, Academician

SUBMITTED: November 18, 1959

Card 2/2

ACC NR: AT7004277

AUTHOR: Kuropatenko, V. F.

ORG: none

TITLE: Finite difference method for hydrodynamic equations

SOURCE: AN SSSR. Matematicheskiy institut. Trudy, v. 74, 1966. Raznostnyye metody resheniya zadach matematicheskoy fiziki (Difference methods for solving problems in mathematical physics), pt. 1, 107-137

TOPIC TAGS: finite difference, hydrodynamics, thermodynamics, acoustic wave, shock wave, rarefaction wave

ABSTRACT: Finite difference methods are applied to one-dimensional unsteady hydro-dynamic equations. These equations are given by

$$U_t + r^s P_x = 0, \quad V_t - (r^n U)_x = 0, \quad \mathscr{E}_t + (r^s PU)_x = 0.$$

The following coordinates are used for two types of grids

$$x_i = x_0 + \sum_1^i h_{i,i}$$

$$t_n = t_0 + \sum_1^n \tau_k.$$

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ACC NR: AT7004277

In type one, all unknown functions are defined on points $x_{i+1/2}$; in type two grids only thermodynamic quantities are defined on the points $x_{i+1/2}$. The velocity U is determined on points x_i. Both rarefaction (R-waves) and shock (S-waves) waves are considered in the analysis. For R-waves, which lead to smooth solutions, the following difference equation is obtained for the velocity

$$\frac{\Delta U(x_i)}{\tau} + \frac{\Delta P(t^*)}{h} = 0.$$

For discontinuous solutions, auxiliary quantities are introduced, defined by the asterisks in the following two difference equations

$$(U^{'}_{1/2} - U^{0}_{1/2})\, h + (P^{*}_1 - P^{*}_0)\, \tau = 0,$$

$$(V^{'}_{1/2} - V^{0}_{1/2})\, h - (U^{*}_1 - U^{*}_0)\, \tau = 0.$$

These are determined from the expressions

$$P^{*}_1 - P^{*}_0 = \bar{P}_{1/2} - \bar{P}_{1/2} + O(\tau^2, h^2),$$

$$U^{*}_1 - U^{*}_0 = U^{0}_{1/2} - U^{0}_{-1/2} + O(\tau^2, h^2),$$

which in turn allow one to calculate $U^{'}_{1/2}$ and $V^{'}_{1/2}$. Using the R-wave analysis, a similar finite difference expression is derived for the energy. This is given by

$$E^{'}_{1/2} - E^{0}_{1/2} + \frac{1}{2}(P^{'}_{1/2} + P^{0}_{1/2} + 2q_{1/2})(V^{'}_{1/2} - V^{0}_{1/2}) = 0.$$

Three kinds of finite difference schemes are investigated, using either of the above

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ACC NR: AT7004277

two types of grids. Depending on the nature of auxiliary functions, the third
difference scheme is in turn divided into three sub-schemes. All three finite differ-
ence methods are then discussed for the acoustic approximation given by the equations

$$U_t + P_x = 0,$$

$$P_t + c^2 U_x = 0.$$

It is shown that the stability criteria for all three methods are satisfied by the
inequality $\chi^2 \leq 1$ where $\chi = \tau c/h$. It is further shown that (in all three methods)
if the exact solution is monotonic the approximate solution is not. Using the last of
the three finite difference schemes analyzed, a numerical example is considered on a
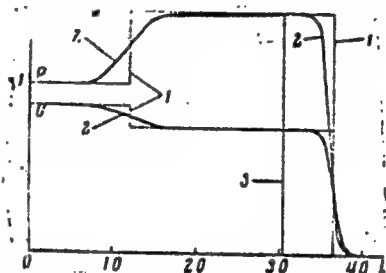digital computer and then compared with the exact solution. This is shown in Fig. 1.

Fig. 1. 1 - exact solution; 2 -
approximate solution; 3 - contact
discontinuity

Orig. art. has: 151 equations, 4 figures, and 3 tables.

SUB CODE: 12, 20/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 003

Card 3/3

L 05677-67   EWP(m)/EWT(1)/EWT(m)/T   WW/JW/JWD/WE

ACC NR: AR6023238   SOURCE CODE: UR/0044/66/000/003/B070/B070

AUTHOR: Golubeva, N. K.; Kuropatenko, V. F.

REF SOURCE: Dokl. 3-y Sibirsk. konferentsii po matem. i mekhan., 1964. Tomsk, Tomskiy un-t, 1964, 99

TITLE: On a difference method for the calculation of a one-dimensional detonation wave

SOURCE: Ref. zh. Matematika, Abs. 3B356

TOPIC TAGS: detonation wave, difference equation, mathematic model

TRANSLATION: A method is proposed for making continuous calculations of a detonation wave. This method is based on the representation of the state equation in the front zone of the wave in the form $p = g\rho^{\gamma}$, where the function g is calculated in a determined way and serves as a mathematical model for the exact state equation in the zone of phase transfer. The proposed method is a variant of the method of spreading the discontinuity. N. Kuznetsov.

SUB CODE: 12/   SUBM DATE: none

UDC: 517.9:533.7

Card 1/1

KUROPATENKO, V.F. (Chelyabinsk)

Method for constructing difference systems for the numeral
integration of the equations of gas dynamics. Izv. vys.ucheb.
zav.; mat. no.3:75-83 '62.   (MIRA 15:9)
               (Differential equations)
                 (Gas dynamics)

S/208/63/003/001/013/013
B112/B102

AUTHOR: Kuropatenko, V. F. (Chelyabinsk)

TITLE: Difference method for calculating shock waves

PERIODICAL: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki,
              v. 3, no. 1, 1963, 201-204

TEXT: The gas-dynamical system

$$\left.\begin{aligned} u_t &= -P_x, \\ V_t &= u_x, \\ \mathscr{E}_t &= -(Pu)_x, \\ \mathscr{E} &= E + \tfrac{1}{2}u^2, \\ P &= f(V,E) \end{aligned}\right\} \quad (1)$$

$$\left.\begin{aligned} \bar{V} - V_0 &= -\frac{1}{W}\,(\bar{u} - u_0), \\ \bar{u} - u_0 &= \frac{1}{W}\,(\bar{P} - P_0), \\ \bar{E} - E_0 &= \frac{1}{2}\,(\bar{P} + P_0)(V_0 - \bar{V}). \end{aligned}\right\} \quad (2)$$

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Difference method for calculating ...

is substituted by the difference system

$$u^{n+1}_{i+1/2} - u^n_{i+1/2} = -\frac{\tau}{h}(P^\bullet_{i+1} - P^\bullet_i),$$

$$V^{n+1}_{i+1/2} - V^n_{i+1/2} = \frac{\tau}{h}(U^\bullet_{i+1} - U^\bullet_i),$$

$$\mathscr{E}^{n+1}_{i+1/2} - \mathscr{E}^n_{i+1/2} = -\frac{\tau}{h}(P^\bullet_{i+1}U^\bullet_{i+1} - P^\bullet_i U^\bullet_i),$$

$$\mathscr{E}^{n+1}_{i+1/2} = E^{n+1}_{i+1/2} + \frac{1}{2}(u^{n+1}_{i+1/2})^2,$$

$$P^{n+1}_{i+1/2} = f(V^{n+1}_{i+1/2}, E^{n+1}_{i+1/2}).$$

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(3).

(4)

(5)

(6)

(7)

The solutions are

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Difference method for calculating ...

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B112/B102

$$P_i^{\cdot} = P_{i-\frac{1}{2}}^n,$$

$$U_i^{\cdot} = u_{i+\frac{1}{2}}^n + \frac{P_{i-\frac{1}{2}}^n - P_{i+\frac{1}{2}}^n}{\sqrt{\frac{1}{2V_{i+\frac{1}{2}}^n} \cdot [(\tau+1)P_{i-\frac{1}{2}}^n - (\tau-1)P_{i+\frac{1}{2}}^n]}} \cdot \qquad (12)$$

Transition from difference quotients to differential quotients shows the applicability of the method.   There are 2 figures.

SUBMITTED: May 7, 1962

Card 3/3

lb 3400
lo.1200

39012

S/140/62/000/003/004/007
C111/C333

AUTHOR: Kuropatenko, V. I.

TITLE: A method for constructing difference schemes for the
             numerical integration of equations of gas dynamics

PERIODICAL: Vysshiye uchebnyye zavedeniya. Izvestiya. Matematika,
             no. 3, 1962, 75-83

TEXT: It is suggested that the numerical solution of the system

$$\frac{\partial v}{\partial t} - \frac{\partial u}{\partial x} = 0 , \qquad \frac{\partial u}{\partial t} + \frac{\partial p}{\partial x} = 0$$

$$\frac{\partial E}{\partial t} + p \frac{\partial v}{\partial t} = 0, \qquad P = f(v, E) \qquad (1)$$

where u--velocity, v--specific volume, E--internal energy and $P=f(v,E)$
is the equation of state, be based on the assumption that the solution
consists of R- and S-waves. The approximate solution in the interval
$[x_i, x_{i+1}]$ is called R-wave if

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$$\frac{u_i - u_{i+1}}{x_i - x_{i+1}} \geq 0 \tag{5}$$

holds there, and it is called S-wave if

$$\frac{u_i - u_{i+1}}{x_i - x_{i+1}} < 0 \tag{6}$$

holds. If there is a strong discontinuity (shock-wave) in the interval, then the approximate solution is an S-wave there. The R-waves are determined with the help of an arbitrary stable difference scheme for (1). To determine the S-waves the relations

$$v_+ - v_- = -\frac{1}{w}(u_+ - u_-),$$
$$u_+ - u_- = \frac{1}{w}(p_+ - p_-), \tag{2}$$
$$E_+ - E_- = \frac{1}{2}(p_+ + p_-)(v_- - v_+)$$

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A method for constructing difference C111/C333 S/140/62/000/003/004/007

are used, where the values to the right and to the left of the discontinuity are denoted by + and -, respectively, and where w is the propagation velocity. All the quantities with "-" and one quantity with "+" are considered to be known. All other quantities with "+" can then be calculated with the help of the equation of state. They serve as auxiliary quantities when setting up the difference scheme for determining the S-wave, where the scheme depends on which "+" quantity is chosen as the known one. As an example, the scheme

$$u_i^{n+1} - u_i^n = -\frac{\tau}{h}\left[(p_+)^n_{i+\frac{1}{2}} - (p_+)^n_{i-\frac{1}{2}}\right. , \qquad . \qquad (11)$$

$$v^{n+1}_{i-\frac{1}{2}} - v^n_{i-\frac{1}{2}} = \frac{\tau}{h}(u_i^{n+1} - u_{i-1}^{n+1} , \qquad\qquad (12)$$

$$E^{n+1}_{i-\frac{1}{2}} - E^n_{i-\frac{1}{2}} = \frac{1}{2}\left[(p_+)^n_{i-\frac{1}{2}} + (p_+)^{n+1}_{i-\frac{1}{2}}\right]\left(v^n_{i-\frac{1}{2}} - v^{n+1}_{1-\frac{1}{2}}\right) \quad (13)$$

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$$p^{n+1}_{i-\frac{1}{2}} = f\left(v^{n+1}_{i-\frac{1}{2}}, E^{n+1}_{i-\frac{1}{2}} \right) \qquad (14)$$

is suggested. For the R-waves $(p_+)^{n+1}_{i-\frac{1}{2}} = p^{n+1}_{i-\frac{1}{2}}$ and for the S-waves

$(p_+)^{n+1}_{i-\frac{1}{2}}$ are determined from (2); here

$$v_- = v^n_{i-\frac{1}{2}}, \qquad p_- = p^n_{i-\frac{1}{2}}$$

$$\qquad\qquad\qquad\qquad\qquad\qquad (15)$$

$$E_- = E^n_{i-\frac{1}{2}}, \qquad u_+ - u_- = \pm (u^{n+1}_i - u^{n+1}_{i-1})$$

are chosen as the given quantities. The "viscous" auxiliary term
corresponding to the suggested method is determined. The author mentions

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C111/C333

the differences between results of the suggested method and those of
the Neuman method (I. Neuman, R. Richtmayer, A method for the numerical
calculations of hydrodynamical shocks. J. Appl. Phys., 21, 232, 1950).
The author thanks N. N. Yanenko for his advice.

SUBMITTED: January 28, 1961

Card 5/5